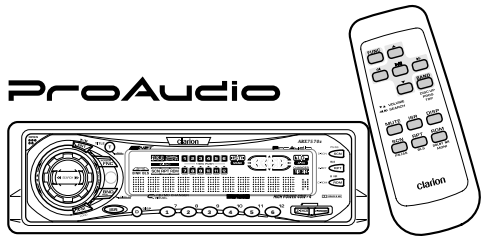
Clarion®

Owner's manual
Mode d'emploi
Manual de instrucciones

ARX7570z

AM/FM CASSETTE PLAYER
WITH CD/MD CHANGER CONTROL
•
LECTEUR DE CASSETTE AM/FM AVEC
COMMANDE DE CHANGEUR CD/MD
•
RADIO DE AM/FM Y REPRODUCTOR DE
CASETES CON CONTROL DE CAMBIADOR DE
DISCOS COMPACTOS/MINIDISCOS



ProAudio

GeNET

TOUCH n·GO™

Clarion Co., Ltd.

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1999/1 (A·C)

PE-1639B
280-7232-00

Thank you for purchasing the **Clarion ARX7570z**.

* Please read this owner's manual in its entirety before operating this equipment.
* After reading this manual, be sure to keep it in a handy place (e.g., glove compartment).
* Check the contents of the enclosed warranty card and keep it carefully with this manual.
* This manual includes the operating procedures of the CD changer, MD changer and TV tuner connected via the CeNET cable. The CD changer, MD changer and TV tuner have their own manuals, but no explanations for operating them are described.

English

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11. ESPECIFICACIONES

Sintonizador de FM

Gama de frecuencias:
87,9 a 107,9 MHz
Sensibilidad útil:
11 dBf
Sensibilidad a 50 dB de silenciamiento:
17 dBf
Selectividad de canal alternativo:
75 dB
Separación entre canales (1 kHz):
35 dB
Respuesta en frecuencia (±3 dB):
30 Hz a 15 kHz

Sintonizador de AM

Gama de frecuencias:
530 a 1710 kHz
Sensibilidad útil:
25 μV

Reproductor de casetes

Fluctuación y trémolo (ponderación eficaz):
0,06%
Separación entre canales (1 kHz):
45 dB
Respuesta en frecuencia (±3 dB)
120 μs (normal):
30 Hz a 18 kHz
70 μs (CrO_2, FeCr, Metal):
30 Hz a 20 kHz
Relación señal-ruido, 70 μs (CrO_2, FeCr, Metal)
Dolby NR OFF:
58 dB
Dolby B NR:
67 dB

Audio

Salida máxima de potencia:
160 W (40 W × 4 canales) (EIAJ)
Salida media continua de potencia:
14 W × 4, con 4 Ω, de 20 Hz a 20 kHz, 1% de distorsión armónica total
Acción de control de graves (30 Hz):
±15 dB
Acción de control de agudos (10 kHz):
±10 dB
Nivel de salida de línea (cinta 0VU):
0,7 V

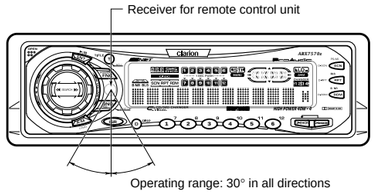
Generales

Tensión de alimentación:
14,4 V CC (permisible de 10,8 a 15,6 V), negativo a masa
Consumo de corriente:
Menos de 15 A
Impedancia de los altavoces:
4 Ω (permisible de 4 a 8 Ω)
Peso / Unidad fuente:
3,52 lb. (1,6 kg)
Peso / Controlador remoto:
1 oz. (30 g) (incluyendo la pila)
Dimensiones / Unidad fuente:
7″ (An) × 2″ (Al) × 6-1/8″ (Prf)
[178 (An) × 50 (Al) × 155 (Prf) mm]
Dimensiones / Controlador remoto:
1-3/4″ (An) × 4-5/16″ (Al) × 1-1/8″ (Prf)
[44 (An) × 110 (Al) × 27 (Prf) mm]

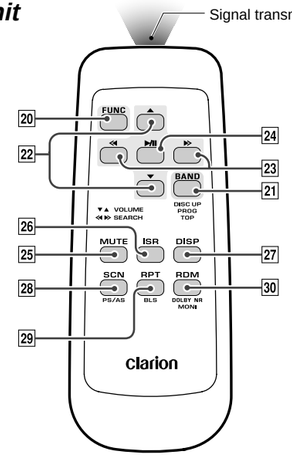
Español

Notas:
- *Las especificaciones están de acuerdo con las normas de la EIA.*
- *Las especificaciones y el diseño están sujetos a cambio sin previo aviso por motivo de mejoras.*

6. REMOTE CONTROL

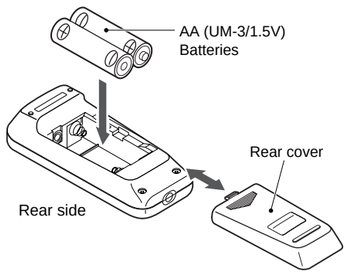


Remote control unit



Inserting the Batteries

1. Turn the remote control unit over, then slide the rear cover in the direction of the arrow.
2. Insert the AA (UM-3/1.5V) batteries that came with the remote control unit facing in the directions shown in the figure, then close the rear cover.



Notes:

Using batteries improperly can cause them to explode. Take note of the following points:

- *When replacing batteries, replace both batteries with new ones.*
- *Do not short-circuit, disassemble or heat batteries.*
- *Do not dispose of batteries into fire or water.*
- *Dispose of spent batteries properly.*

English

1. FEATURES

- Rotary Encoder Volume Control with Illuminated Search Key
- Touch-n-Go Flip Down Detachable Face
- Controller for Optional TV Tuner Module
- Capability to Read CD TEXT Data from Clarion Compatible CD Changer
- Z-Enhancer with 3 Adjustment Modes
- CeNET with Balanced Audio Line Transmission and Dynamic Noise Canceling
- MAGIC TUNER® FM Reception System
- Full Logic Tape Transport with True Function / Auto Reverse with Dual Azimuth Adjust
- Dolby® B Noise Reduction
- 4-Channel RCA Line Level Output with Fader Control
- 2-Channel Non-Fade RCA Line Level Output
- 160W (40W×4) Maximum Power Output

2. PRECAUTIONS

This unit uses a precision mechanism. Even in the event that trouble arises, never open the case, disassemble the unit, or lubricate the rotating parts.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help.

⚠CAUTION

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE MANUFACTURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

INFORMATION FOR USERS:

CHANGES OR MODIFICATIONS TO THIS PRODUCT NOT APPROVED BY THE MANUFACTURER WILL VOID THE WARRANTY AND WILL VIOLATE FCC APPROVAL.

English

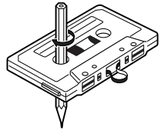
Handling Cassette Tapes

Using any of the following types of cassette tapes can cause malfunctions.

- Cassette tapes with low recording levels
- Cassette tapes in which the unrecorded section between tracks is shorter than 4 seconds
- Cassette tapes with noise or the like recorded between tracks
- Cassette tapes on which there are long unrecorded sections in the middle of a track

Handling precautions

- Slack in the tape can cause malfunctions. In particular for prerecorded cassette tapes and 90-minute tapes, take up any slack in the tape before inserting it into the cassette player.



- Avoid using cassettes of 120 minutes or longer. (Such cassettes have extremely thin tape, so the tape can become stretched or cut.)
- Periodically play a cleaning cassette in the player to clean the head.
- Keep magnet items like magnets, and iron and steel items like screwdrivers away from both cassette tapes and the tape head in the player.
- Do not oil the cassette mechanism.
- Do not use any cassette tapes with peeling labels or deformed cases. Such cassette tapes can cause breakdowns.
- When not using the player, always take the cassette out of the mechanism. Exposing a cassette to direct sunlight, extreme temperatures or high humidity can damage the cassette.

Flip Down Panel

The ARX7570z uses a flip-down structure that makes possible large-size displays.

⚠CAUTION

When opening and closing the FLIP DOWN PANEL, be careful not to catch your fingers. They could be injured.

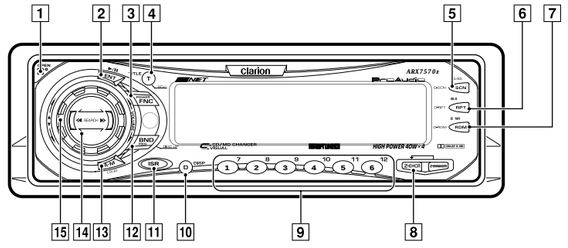
1. Always use the ARX7570z with the FLIP DOWN PANEL closed.
2. Do not force operations or use this device abnormally when opening or closing the FLIP DOWN PANEL.
3. Do not use the FLIP DOWN PANEL as a tray to place objects on when it is open.
4. When closing the FLIP DOWN PANEL, do not press the OPEN button [1].
5. Strong impacts to the operating or display section can cause damage or deformation.
6. If the FLIP DOWN PANEL does not open fully, gently open it with your hand.

Be sure to unfold and read the next page.
Veuillez déplier et vous référer à la page suivante.
Cerciórese de desplegar y de leer la página siguiente.

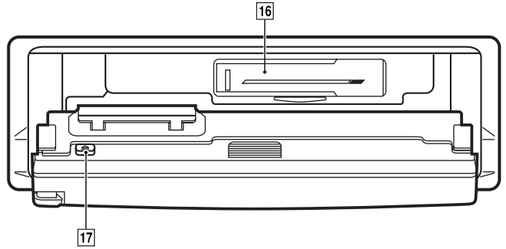
English
Français
Español

3. CONTROLS / LES COMMANDES / CONTROLES

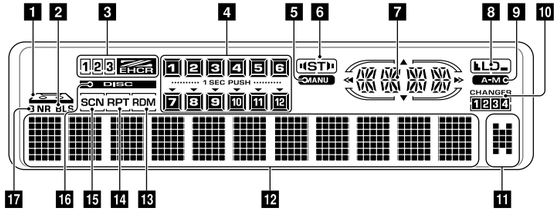
Source unit / Appareil pilote / Unidad fuente



With the FLIP DOWN PANEL opened / Ouverture du PANNEAU RABATTABLE / Apertura del PANEL ABATIBLE



Display / Afficheur / Visualizador



Note: *Be sure to unfold this page and refer to the front diagrams as you read each chapter.*
Remarque: *Veuillez déplier cette page et vous référer aux schémas quand vous lisez chaque chapitre.*
Nota: *Cuando lea los capítulos, despliegue esta página y consulte los diagramas.*

4. NOMENCLATURE

Note:
*• Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).*

Names of Buttons

1. OPEN button
2. ENT (enter) button
   Play/pause button
3. POWER button
   FNC (function) button
4. TITLE button
   ADJ (adjust) button
5. PS/AS (preset scan/auto store) button
   SCN (scan) button
6. RPT (repeat) button
   BLS (blank skip) button
7. DOLBY NR button
   RDM (random) button
8. Z-EHCR (z-enhancer) button
9. Preset buttons (1 to 6)
   Direct buttons (1 to 6) (7 to 12)
10. DISP (display) button
11. ISR (instant station recall) button
12. BND (band) button
    PROG (program) button
13. A-M (audio mode) button
    LOUD (loudness) button
14. SEARCH button
15. Rotary knob
16. Cassette tape insertion slot
17. Eject button

Display Items

1. Cassette tape in indication
2. BLS (blank skip) indication
3. Z-EHCR (z-enhancer) indication
4. Preset channel indication (1 to 6)
   Disc number indication (1 to 12)
   ∗ The disc numbers corresponding to the discs in the CD or MD changer light.
5. MANU (manual) indication
6. ST (stereo) indication
7. Function mode indication
   ∗ The names of modes being selected, etc. are displayed.
8. LD (loudness) indication
9. A-M (audio mode) indication
10. CD/MD changer mode indication
11. Long title indication
    ∗ When the texts for CD or MD are more than 11 characters, this indication lights.
12. Operation status indication
    ∗ The frequency, play time, clock, etc. are displayed.
13. RDM (random) indication
14. RPT (repeat) indication
15. SCN (scan) indication
16. DISC indication
17. Dolby B NR indication

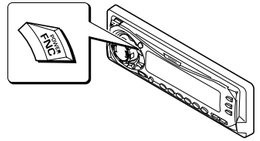
5. DCP

The control panel can be detached to prevent theft. When detaching the control panel, store it in the DCP (DETACHABLE CONTROL PANEL) case to prevent scratches.

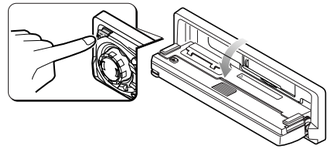
We recommend taking the DCP with you when leaving the car.

Removing the DCP

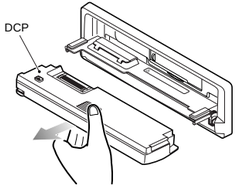
1. Hold down POWER button 3 for 1 second or longer to turn off the power.



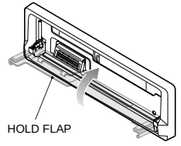
2. Deeply push in OPEN button 1 to unlock the FLIP DOWN PANEL.
   ∗ If the FLIP DOWN PANEL does not open fully, gently open it with your hand.



3. Pull the DCP toward you and remove it.



4. Close the HOLD FLAP.

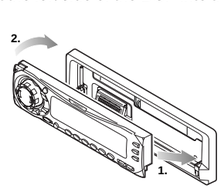


⚠CAUTION

Be sure to close the HOLD FLAP for safety when removing the DCP.

Attaching the DCP

1. Insert the right side of the DCP into the source unit.
2. Insert the left side of the DCP into the source unit.



⚠CAUTION

- **The DCP can easily be damaged by shocks. After removing it, be careful not to drop it or subject it to strong shocks.**
- **If the FLIP DOWN PANEL is kept open, the DCP may drop due to vibration of the car.**
  This results in damage to the DCP. So close the FLIP DOWN PANEL or remove the DCP to store into the case.
- **The connector connecting the source unit and the DCP is an extremely important part. Be careful not to damage it by pressing on it with fingernails, screwdrivers, etc.**

Note:
• If the DCP is dirty, wipe off the dirt with a soft, dry cloth only.

Functions of Remote Control Unit Buttons

Button \ Mode	Radio	Tape	CD changer MD changer	TV
20 FUNC	Turns power on and off. When pressed and held for 1 second: Turns power off. Switches among radio, tape, CD changer, MD changer and TV.			
21 BAND DISC UP PROG TOP	Switches reception band.	Switches the side of the tape.	Moves the next disc in increasing order.	Switches reception band.
22 VOLUME	Increases and decreases volume (in all modes).			
23 SEARCH	Moves preset channels up and down.	Fast-forward and rewinds tape. APC fast-forward and rewind.	Moves tracks up and down. When pressed and held for 1 second: Fast-forward/ fast-backward.	Moves preset channels up and down.
24 PLAY/PAUSE	No function.	Switches between playback and pause.	Switches between playback and pause.	No function.
∞ MUTE	Turns mute on and off.			
26 ISR	Recalls ISR radio station in memory. Press and hold for 2 seconds or longer: Stores current station into ISR memory (radio mode only).			
27 DISP	Switches among main display, sub display and clock display .			
28 SCN PS/AS	Preset scan. When pressed and held for 2 seconds: Auto store.	Fast-forward scan.	Scan play. When pressed and held for 2 seconds: Disc scan play.	Preset scan. When pressed and held for 2 seconds: Auto store.
29 RPT BLS	No function.	Repeat play. When pressed and held for 1 second: Blank tape skip function turns on and off.	Repeat play. When pressed and held for 2 seconds: Disc repeat play.	No function.
30 RDM DOLBY NR MONI	No function.	Select Dolby Noise Reduction mode.	Random play. When pressed and held for 2 seconds: Disc random play.	Switches between TV and VTR.

* Some of the corresponding buttons on the source unit and remote control unit have different functions.

English

7. OPERATIONS

Basic Operations

Note: *Be sure to read this chapter referring to the front diagrams of chapter "**3. CONTROLS**" on page 5 (unfold).*

English

⚠CAUTION

Be sure to lower the volume before switching off the unit power or the ignition key. The unit remembers its last volume setting. If you switch the power off with the volume up, when you switch the power back on, the sudden loud volume may hurt your hearing and damage the unit.

The clock is displayed when the ignition key is turned to the ACC (accessory) or IGN (ignition-on) position even when the unit power is off. In some cars, the clock may momentarily disappear when the ignition key is turned to the START position. The clock will reappear after the engine has started and the ignition key is released to the IGN (ignition-on) position.

Turning on/off the power

Note:

- *Be careful about using this unit for a long time without running the engine. If you drain the car's battery too far, you may not be able to start the engine and this can reduce the service life of the battery.*

1. Press POWER button [3].
2. The illumination and display on the unit light up. The unit automatically remembers its last operation mode and will automatically switch to display that mode.
3. Press and hold POWER button [3] for 1 second or longer to turn off the power for the unit.

Note:

- *System check*

  *The first time this unit is turned on after the wire connections are completed, it must be checked what equipment is connected. When the power is turned on, "**SYSTEM CHCK**" appears in the display, so press POWER button [3]. The system check starts within the unit. When the system check is complete, the power is turned off, so press POWER button [3] again.*

Selecting a mode

1. Press FNC button [3] to change the mode of operation.
2. Each time you press FNC button [3], the mode of operation changes in the following order:

   Radio mode ➜ Tape mode ➜ CD changer mode ➜ MD changer mode ➜ TV mode ➜ Radio mode...

   ∗ External equipment not connected with CeNET is not displayed.

Adjusting the volume

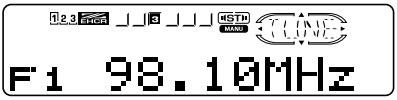
Turning the Rotary knob [15] clockwise increases the volume; turning it counterclockwise decreases the volume.

∗ The volume level is from 0 (minimum) to 33 (maximum).

Switching the display

Press DISP button [10] to select the desired display. Each time you press DISP button [10], the display switches in the following order:

Main display



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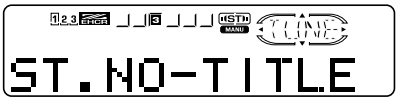
Sub (title) display



↓

Clock display

↓

Main display...

∗ Once selected, the preferred display becomes the display default. When a function adjustment such as volume is made, the screen will momentarily switch to that function's display, then revert back to the preferred display several seconds after the adjustment.

∗ When you have entered a title in a CD, it appears in the sub display. If you have not entered a title, "**NO-TTL**" appears in the title display instead. For information on how to enter a title, refer to the subsection "**Entering titles**" in the "**Other Handy Functions**".

Setting the Z-enhancer

This unit comes with 3 types of sound tone effects stored in memory. Select the one you prefer.

∗ The factory default setting is "**Z-EHCR OFF**".

Each time you press Z-EHCR button [8], the tone effect changes in the following order:

"**Z-ENHANCER 1**" ➜ "**Z-ENHANCER 2**" ➜ "**Z-ENHANCER 3**" ➜ "**Z-EHCR OFF**" ➜ "**Z-ENHANCER 1**"...

- Z-ENHANCER 1 : bass emphasized
- Z-ENHANCER 2 : treble emphasized
- Z-ENHANCER 3 : bass and treble emphasized
- Z-EHCR OFF : no sound effect

Adjusting the tone

Press A-M button [13] and select the item to adjust. Each time you press A-M button [13], the item changes in the following order:

● **When the Z-enhancer and tone bypass are off**

"**T-BYPASS**" ➜ "**BASS**" ➜ "**TREBLE**" ➜ "**BALANCE**" ➜ "**FADER**" ➜ Function mode...

● **When Z-enhancer 1, 2 or 3 is set**

"**Z-EHCR**" ➜ "**BALANCE**" ➜ "**FADER**" ➜ Function mode...

Setting tone bypass

The tone bypass disables the tone (bass and treble) functions and cuts the noise generated when the tone functions are on.

1. Press A-M button [13] and select "**T-BYPASS**".
2. Turning the Rotary knob [15] clockwise sets the tone bypass to "**YES**" (ON); turning it counterclockwise sets the tone bypass to "**NO**" (OFF).
   - ∗ The factory default setting is "**NO**" (OFF).
   - ∗ If the setting is "**YES**" (ON), the bass and treble adjustments cannot be made.
3. When the adjustment is complete, press A-M button [13] several times until the function mode is reached.

Note:

• If you set the Z-ENHANCER function to ON (1 to 3), you cannot set the tone bypass.

Adjusting the bass

1. Press A-M button [13] and select "**BASS**".
2. Turning the Rotary knob [15] clockwise emphasizes the bass; turning it counterclockwise attenuates the bass.
   - ∗ The factory default setting is "**0**". (Adjustment range: –6 to +6)
   - ∗ The bass cannot be adjusted if the tone bypass setting is "**YES**" (ON).
3. When the adjustment is complete, press A-M button [13] several times until the function mode is reached.

Adjusting the treble

1. Press A-M button [13] and select "**TREBLE**".
2. Turning the Rotary knob [15] clockwise emphasizes the treble; turning it counterclockwise attenuates the treble.
   - ∗ The factory default setting is "**0**". (Adjustment range: –6 to +6)
   - ∗ The treble cannot be adjusted if the tone bypass setting is "**YES**" (ON).
3. When the adjustment is complete, press A-M button [13] several times until the function mode is reached.

Adjusting the balance

1. Press A-M button [13] and select "**BALANCE**".
2. Turning the Rotary knob [15] clockwise emphasizes the sound from the right speaker; turning it counterclockwise emphasizes the sound from the left speaker.
   - ∗ The factory default setting is "**0**". (Adjustment range: L13 to R13)
3. When the adjustment is complete, press A-M button [13] several times until the function mode is reached.

Adjusting the fader

1. Press A-M button [13] and select "**FADER**".
2. Turning the Rotary knob [15] clockwise emphasizes the sound from the front speakers; turning it counterclockwise emphasizes the sound from the rear speakers.
   - ∗ The factory default setting is "**0**". (Adjustment range: F12 to R12)
3. When the adjustment is complete, press A-M button [13] several times until the function mode is reached.

Adjusting the Z-enhancer

1. Press Z-EHCR button [8] and select the Z-enhancer mode (1 to 3) to adjust.
2. Press A-M button [13] and select "**Z-EHCR**".
3. Turning the Rotary knob [15] clockwise adjusts in the + direction; turning it counterclockwise adjusts in the – direction.
   - ∗ When Z-enhancer 1 is selected, you can adjust the bass in the range of ±2.
   - ∗ When Z-enhancer 2 is selected, you can adjust the treble in the range of ±2.
   - ∗ When Z-enhancer 3 is selected, you can adjust the bass and treble in the range of ±2.
4. When the adjustment is complete, press A-M button [13] several times until the function mode is reached.

Note:

• If you set the Z-ENHANCER function to ON (1 to 3), you cannot set the tone bypass.

Turning on/off the loudness

The loudness effect emphasizes the bass and treble to create a natural sound tone. When you are listening to music at a low volume, it is recommended to use the loudness effect.

1. Press and hold LOUD button [13] for 1 second or longer to turn on the loudness effect. When the loudness effect is turned on, "**LD**" lights in the display.
2. Press and hold LOUD button [13] for 1 second or longer to turn off the loudness effect. "**LD**" goes off in the display.

Radio Operations

FM reception

For enhanced FM performance the MAGI-TUNE® tuner includes signal actuated stereo control, Enhanced Multi AGC, Impulse noise reduction circuits and Multipath noise reduction circuits.

Changing the reception area

This unit is initially set to USA frequency intervals of 10 kHz for AM and 200 kHz for FM. When using it outside the USA, the frequency reception range can be switched to the intervals below.

● **Setting the reception area**

1. Press BND button [12] and select the desired radio band (FM or AM).
2. While pressing RDM button [7], each time you press and hold the number "**1**" of the Preset buttons [9] for 2 seconds or longer, the reception area switches from inside the USA to outside the USA or from outside the USA to inside the USA.
   - ∗ Any station preset memories are lost when the reception area is changed.

Listening to the radio

1. Press FNC button [3] and select the radio mode.
2. Press BND button [12] and select the radio band. Each time the button is pressed, the radio reception band changes in the following order:

   FM1 ➜ FM2 ➜ FM3 ➜ AM ➜ FM1...
3. Press the right or left side of SEARCH button [14] to tune in the desired station.

Tuning

There are 3 types of tuning mode available, seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press BND button [12] and select the desired band (FM or AM).
   - ∗ If "**MANU**" is lit in the display, press and hold BND button [12] for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press the right or left side of SEARCH button [14] to automatically seek a station.
   When the right side of SEARCH button [14] is pressed, the station is sought in the direction of higher frequencies; if the left side of SEARCH button [14] is pressed, the station is sought in the direction of lower frequencies.

Manual tuning

There are 2 ways available: Quick tuning and step tuning.
When you are in the step tuning mode, the frequency changes one step at a time. In quick tuning mode, you can quickly tune the desired frequency.

1. Press BND button [12] and select the desired band (FM or AM).
   * If "**MANU**" is not lit in the display, press and hold BND button [12] for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**

Press and hold the right or left side of SEARCH button [14] for 1 second or longer to tune in a station.

● **Step tuning:**

Press the right or left side of SEARCH button [14] to manually tune in a station.

Recalling a preset station

A total of 24 preset positions (6-FM1, 6-FM2, 6-FM3, 6-AM) exists to store individual radio stations in memory. Pressing the corresponding preset button recalls the stored radio frequency automatically.

1. Press BND button [12] and select the desired band (FM or AM).
2. Press the corresponding Preset button [9] to recall the stored station.
   * Press and hold one of the Preset buttons [9] for 2 seconds or longer to store that station into preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of the Preset buttons [9] for 2 seconds or longer to store the current station into preset memory.

Auto store

Auto store is a function for storing up to 6 stations that are automatically tuned in sequentially. If 6 stations cannot be received, a previously stored station remains unoverwritten at the memory position.

1. Press BND button [12] and select the desired band (FM or AM).
2. Press and hold AS button [5] for 2 seconds or longer. The stations with good reception are stored automatically to the Preset buttons [9].

Preset scan

Preset scan receives the stations stored in preset memory in order. This function is useful when searching for a desired station in memory.

1. Press PS button [5].
2. When a desired station is tuned in, press PS button [5] again to continue receiving that station.

Note:

• Be careful not to press and hold PS button [5] for 2 seconds or longer, otherwise the auto store function engages and the unit starts storing stations.

Instant station recall (ISR)

Instant station recall is a special radio preset that instantly accesses a favorite radio station at a touch of a button. The ISR function even operates with the unit in other modes.

● **ISR memory**

1. Select the station that you wish to store in ISR memory.
2. Press and hold ISR button [11] for 2 seconds or longer.

● **Recalling a station with ISR**

In any mode, press ISR button [11] to turn on the radio function and tune the selected radio station. "**ISR**" appears in the display. Press ISR button [11] again to return to the previous mode.

Loading a tape

1. Press OPEN button 1 to access the cassette tape insertion slot behind the FLIP DOWN PANEL.
2. Load a tape into the cassette tape insertion slot. "**LOADING**" appears in the display and starts playing.

∗ When a metal or chrome bias (70μ sec) tape is inserted, the metal tape setting is selected automatically.

3. Close the FLIP DOWN PANEL.

⚠CAUTION

Be careful not to catch your hand or fingers while closing the FLIP DOWN PANEL.

Notes:

- *If the FILP DOWN PANEL does not open fully, gently open with your hand.*
- *Do not leave the FLIP DOWN PANEL open. Be sure to close it to avoid any possible mechanical damage.*
- *Do not put your hands, fingers or foreign objects into the cassette tape insertion slot.*
- *When a tape has already been loaded in the cassette tape insertion slot, another one cannot be inserted into it. Never try to insert another tape forcibly.*

Listening to a tape already inserted

Press FNC button 3 to select the tape mode. The tape starts playing automatically. If no tape is loaded in the unit, "**NO CASSETTE**" appears in the display.

Pausing tape play

1. Press Play/pause button 2 to pause tape playback. "**PAUSE**" appears in the display.
2. Press Play/pause button 2 again to resume tape playback.

Ejecting a tape

1. Press OPEN button 1 to access the cassette Eject button 17 behind the FLIP DOWN PANEL.
2. Press Eject button 17 to eject a tape and take it out.
3. Close the FLIP DOWN PANEL.

⚠CAUTION

Be careful not to catch your hand or fingers while closing the FLIP DOWN PANEL.

Notes:

- *If the FILP DOWN PANEL does not open fully, gently open with your hand.*
- *The radio mode is selected automatically 4 seconds after Eject button 17 is pressed.*

  If the auto antenna terminal for this unit is connected, the antenna is extended automatically. If you are in a location where the antenna may strike something, press FNC button 3 to switch the mode.

Switching to the other side of the tape

Press PROG button 12 to change tape direction and playback.

∗ The tape mechanism automatically reverses direction and engage playback at the end of the tape (auto reverse).

Fast-forwarding/rewinding

● **FF(fast-forward):**
Press the right side of SEARCH button 14.
● **REW(rewind):**
Press the left side of SEARCH button 14.
● **Canceling FF/REW:**
Press Play/pause button 2.

∗ When the end of the tape is reached with FF/REW, the mechanism automatically reverses tape direction and resumes playback.

∗ If you select another mode during FF/REW, it is selected with FF/REW continued.

The mechanism automatically makes FF/REW stop when the end of the tape is reached.

This function is called "**monitor mode**".

APC (Auto Program Control) function

The APC function allows the tape to skip forward to the beginning of the next track or rewind to the start of the current track.

● **Skipping forward to the next track ("APC-FF")**

During tape playback, press the right side of SEARCH button 14 twice to fast-forward to the next track. The next track starts playing.

● **Skipping backwards to the start of the current track ("APC-REW")**

During tape playback, press the left side of SEARCH button 14 twice to rewind to the start of the current track. The current track plays from the beginning.

● **Canceling FF/REW APC to resume playback**

Press Play/pause button 2.

∗ If you select another mode during APC mode, it is selected with APC mode continued.
The mechanism automatically makes APC mode stop when it finds the next track (in APC-FF) or the start of the current track (in APC-REW). This function is called "**monitor mode**".

Dolby noise reduction system

The Dolby noise reduction system increases the volume level of high frequency sounds during recording and sets it back to their original level during play. This system reduces hissing noise which is typical of cassette tapes.

∗ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

1. Press DOLBY NR button 7 to select Dolby noise reduction. Each time you press DOLBY NR button 7, the Dolby type changes in the following order:
DOLBY B NR ON➜DOLBY NR OFF➜DOLBY B NR ON....
2. When DOLBY B NR ON is selected, "**DOLBY B NR**" appears in the display.

Intro tape scan

The intro tape scan allows the first 10 seconds of all the tracks on the tape to be played.
This function continues automatically until it is canceled.

1. Press SCN button 5 to start the intro tape scan. "**SCN**" lights in the display.
2. To cancel the intro tape scan, press SCN button 5 again. "**SCN**" goes off from the display and the current track continues to play.

∗ When the end of the tape is reached during the intro tape scan, the tape mechanism automatically reverses direction and continues the intro tape scan.
∗ If you select another mode during the intro tape scan, the mechanism automatically makes the intro tape scan stop when it finds the next track (APC function).

Tape selection repeat

The tape selection repeat continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button 6. "**RPT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button 6 again. "**RPT**" goes off from the display and normal play resumes.

Blank tape skip

The blank tape skip allows you to skip blank sections of tape that are over 12 seconds long.

1. Press and hold RPT button 6 for 1 second or longer. "**BLS**" lights in the display and the mechanism fastforward to the next track selection.
2. To cancel the blank tape skip, press and hold RPT button 6 for 1 second or longer again. "**BLS**" goes off from the display and normal play resumes.

Notes:

The APC, intro tape scan, tape selection repeat and blank skip may not work properly with tapes of the following qualities:

- *Tapes on which the recording level is too low.*
- *Tapes on which there is much noise between selections.*
- *Tapes on which there are long pauses in the middle of selections.*
- *Tapes on which there are less than 4 seconds of blank space between selections.*

English

Setting the clock

1. Press and hold ADJ button [4] for 1 second or longer to switch to the adjustment selection display.
2. Press the right or left side of SEARCH button [14] to select "**CLOCK**".
3. Press ENT button [2].
4. Press the right or left side of SEARCH button [14] to select the hour or the minute.
5. Turn the Rotary knob [15] clockwise or counterclockwise to set the correct time.
   * The clock is displayed in 12-hour format.
6. Press ENT button [2] to store the time into memory.
7. Press ADJ button [4] to return to the previous mode.

Note:

• You cannot set the clock when it is displayed with only the ignition on. If you drain or remove the car's battery or take out this unit, the clock is reset. While setting the clock, if another button or operation is selected, the clock set mode is canceled.

Dimmer level setting

You can reduce the display illumination linked to the car illumination.

* The factory default setting is "**LEVEL 3**".

1. Press and hold ADJ button [4] for 1 second or longer to switch to the adjustment selection display.
2. Press the right or left side of SEARCH button [14] to select "**DIMMER LV**".
3. Press ENT button [2].
4. Turn the Rotary knob [15] clockwise or counterclockwise to set the dimmer level. Choose the dimmer level from the following.

   "**OFF**", "**LEVEL 1**", "**LEVEL 2**", "**LEVEL 3**", "**LEVEL 4**", "**LEVEL 5**".

   LEVEL 1 to LEVEL 5:

   The greater the dimmer level is, the more the illumination is reduced.

   OFF:

   Even if the car illumination is turned on, reduction of the display illumination does not occur.
5. Pressing ENT button [2] returns to the adjustment selection display.
6. Press ADJ button [4] to return to the previous mode.

Entering titles

Titles up to 10 characters long can be stored in memory and displayed for radio stations and CDs. The numbers of titles that can be entered for each mode are as follows.

Mode	Number of titles
Radio mode	30 titles
TV mode	15 titles

CD changer mode	Number of titles
CDC655z connected	60 titles
CDC655Tz connected	100 titles
CDC1255z connected	50 titles

1. Press FNC button [3] to select the mode you want to enter a title (radio, CD changer or TV).
   * Titles cannot be entered for MDs with this unit.
2. Select and play a CD in a CD changer or tune to an appropriate TV or radio station.
3. Press DISP button [10] and display the subtitle.
4. Press TITLE button [4]. "**TITL**" appears in the display and the cursor position flashes.
5. Press the right or left side of SEARCH button [14] to move the cursor.
6. Press DISP button [10] to select a character. Each time you press DISP button [10], the character changes in the following order:

   Capital letters ➜ Small letters ➜ Numbers ➜ Symbols ➜ Capital letters...
7. Turn the Rotary knob [15] to select the desired character. Turning the Rotary knob [15] clockwise moves the cursor to the next character; turning it counterclockwise moves the cursor to the previous character.
8. Repeat steps 5 to 7 to enter up to 10 characters for the title.
9. Press and hold ENT button [2] for 2 seconds or longer to store the title into memory and cancel title input mode.

Clearing titles

1. Play a CD in a CD changer or tune a radio station or TV station that you want to clear the title for.
2. Press DISP button [10] and display the subtitle.
3. Press TITLE button [4]. "**TITL**" appears in the display and the display switches to the title input display.

4. Press BND button [12].
5. Press and hold ENT button [2] for 2 seconds or longer to clear the title and cancel the title input mode.

Adjusting the display contrast

You can adjust the display contrast according to the angle of installation of the unit.

∗ The factory default setting is "**6**". (Adjustment level: 1 to 11)

1. Press and hold ADJ button [4] for 1 second or longer to switch to the adjustment selection display.
2. Press the right or left side of SEARCH button [14] to select "**CONTRAST**".
3. Press ENT button [2].
4. Turn the Rotary knob [15] clockwise or counterclockwise to adjust the contrast.
5. Pressing ENT button [2] returns to the adjustment selection display.
6. Press ADJ button [4] to return to the previous mode.

Message display

When the unit is powered on or off, a message is displayed. The user can turn this message display on or off.

∗ The factory default setting is "**ON**".

1. Press and hold ADJ button [4] for 1 second or longer to switch to the adjustment selection display.
2. Press the right or left side of SEARCH button [14] to select "**MESSAGE**".
3. Press ENT button [2].
4. Turn the Rotary knob [15] clockwise to set the message display to "**ON**"; turn it counterclockwise to set the message display to "**OFF**".
5. Pressing ENT button [2] returns to the adjustment selection display.
6. Press ADJ button [4] to return to the previous mode.

Triggered audio mute for cellular telephones

This unit requires special wiring to mute the audio signal automatically when a cellular telephone rings in the car.

∗ This function is not compatible with all cellular telephones. Contact your local authorized Clarion dealer for information on proper installation and compatibility.

English

8. OPERATIONS OF ACCESSORIES

CD Changer Operations

English

CD changer functions

When an optional CD changer is connected through the CeNET cable, this unit controls all the CD changer functions. This unit can control a total of 2 changers (MD and/or CD).

Press FNC button [3] and select the CD changer mode to start play. If 2 CD changers are connected, press FNC button [3] to select the CD changer for play.

* If "**NO MAGAZINE**" appears in the display, insert the magazine into the CD changer. "**DISC CHECK**" appears in the display while the player loads (checks) the magazine.
* If "**NO DISC**" appears in the display, eject the magazine and insert discs into each slot. Then, reinsert the magazine back into the CD changer.

⚠CAUTION

CD ROM discs cannot be played in the CD changer.

Pausing play

1. Press Play/pause button [2] to pause play. "**PAUSE**" appears in the display.
2. To resume play, press Play/pause button [2] again.

Displaying CD titles

This unit can display title data for CD-text CDs and user titles input with this unit.

1. Press DISP button [10] to display the title.
2. Each time you press and hold DISP button [10] for 1 second or longer, the title display changes in the following order:

   User title (disc) ➜ CD-text title (disc) ➜ CD-text title (track) ➜ user title (disc)...

Note:

*• If the CD playing is not a CD-text CD or no user title has been input, "**NO-TTL**" appears in the display.*

● **Scrolling a CD-text title**

When a CD-text title is longer than 11 characters, you can scroll the display as follows.

1. Display the CD-text title (disc or track).
2. Press TITLE button [4]. The title scrolls.

Selecting a CD

Each of the Direct button [9] corresponds to a disc loaded into the magazine.

● **Selecting a disc from 1 to 6**

Press the corresponding Direct button [9] (1 to 6) to select the desired disc.

● **Selecting a disc from 7 to 12 (only when a 12 disc CD changer is used.)**

Press and hold the corresponding Direct button [9] (7 to 12) for 1 second or longer to select the desired disc.

* If a CD is not loaded in a slot of the magazine, pressing the Direct button [9] corresponding to its disc number is invalid.

Selecting a track

● **Track-up**

1. Press the right side of SEARCH button [14] to move ahead to the beginning of the next track.
2. Each time you press the right side of SEARCH button [14], the track advances ahead to the beginning of the next track.

● **Track-down**

1. Press the left side of SEARCH button [14] to move back to the beginning of the current track.
2. Press the left side of SEARCH button [14] twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● **Fast-forward**

Press and hold the right side of SEARCH button [14] for 1 second or longer.

● **Fast-backward**

Press and hold the left side of SEARCH button [14] for 1 second or longer.

Top function

The top function plays from the first track (track No. 1) of the disc.

● **When playing a disc 1 to 6**

Press the Direct button [9] (1 to 6) with the same number as the CD playing.

● **When playing a disc 7 to 12 (only when a 12 disc CD changer is used).**

Press and hold for 1 second or longer the Direct button [9] (7 to 12) with the same number as the CD playing.

∗ If a CD is not loaded in a slot of the magazine, pressing the Direct button [9] corresponding to its disc number is invalid.

Scan play

The scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button [5] to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press SCN button [5] again. "**SCN**" goes off from the display and the current track continues to play.

Disc scan play

The disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected CD changer. This function continues automatically until it is canceled.

∗ The disc scan play is useful when you want to select a desired CD.

1. Press and hold SCN button [5] for 1 second or longer. "**DISC**" and "**SCN**" light in the display and the disc scan play starts.
2. To cancel the disc scan play, press SCN button [5] again. "**DISC**" and "**SCN**" go off from the display and the current track continues to play.

Repeat play

The repeat play continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button [6]. "**RPT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button [6] again. "**RPT**" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, the disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is canceled.

1. Press and hold RPT button [6] for 1 second or longer. "**DISC**" and "**RPT**" light in the display and the disc repeat play starts.
2. To cancel the disc repeat play, press and hold RPT button [6] again. "**DISC**" and "**RPT**" go off from the display and normal play resumes on the current track.

Random play

The random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is canceled.

1. Press RDM button [7]. "**RDM**" lights in the display and the random play begins.
2. To cancel the random play, press RDM button [7] again. "**RDM**" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is canceled.

1. Press and hold RDM button [7] for 1 second or longer. "**DISC**" and "**RDM**" light in the display and the disc random play starts.
2. To cancel the disc random play, press and hold RDM button [7] again. "**DISC**" and "**RDM**" go off from the display and normal play resumes from the current track.

MD Changer Operations

MD changer functions

When an optional MD changer is connected through the CeNET cable, this unit controls all the MD changer functions. This unit can control a total of 2 changers (MD and/or CD).

Press FNC button [3] and select the MD changer mode to start play. If 2 MD changers are connected, press FNC button [3] to select the MD changer for play.

∗ If "**NO DISC**" appears in the display, load MDs into the MD changer.

Pausing play

1. Press Play/pause button [2] to pause play. "**PAUSE**" appears in the display.
2. To resume play, press Play/pause button [2] again.

Switching disc titles and track titles

This unit can display disc titles and track titles already entered on MDs. Titles up to 128 characters long can be displayed by scrolling the titles.

∗ Titles cannot be entered for MDs with this unit.

1. Press DISP button [10] to display the title. The disc title or track title is displayed.
2. Each time you press and hold DISP button [10] for 1 second or longer, the display toggles between the disc title and the track title.

● Scrolling titles

When a title is longer than 11 characters, you can scroll through it with the following operation.

1. Display the MD title (disc or track).
2. Press TITLE button [4].

   The display scrolls through the title.

Selecting an MD

Each of the Direct button [9] corresponds to an MD loaded into the MD changer. Press the corresponding Direct button [9] (1 to 6) to select the desired disc.

∗ If an MD is not loaded in a slot of the MD changer, pressing the Direct button [9] corresponding to its disc number is invalid.

Selecting a track

● Track-up

1. Press the right side of SEARCH button [14] to move ahead to the beginning of the next track.
2. Each time you press the right side of SEARCH button [14], the track advances ahead to the beginning of the next track.

● Track-down

1. Press the left side of SEARCH button [14] to move back to the beginning of the current track.
2. Press the left side of SEARCH button [14] twice to move to the beginning of the previous track.

Fast-forward/fast-backward

● Fast-forward

Press and hold the right side of SEARCH button [14] for 1 second or longer.

● Fast-backward

Press and hold the left side of SEARCH button [14] for 1 second or longer.

Top function

The top function plays from the first track (track No. 1) of the disc. Press the Direct button [9] (1 to 6) with the same number as the MD playing.

∗ If an MD is not loaded in a slot of the MD changer, pressing the Direct button [9] corresponding to its disc number is invalid.

Scan play

The scan play locates and plays the first 10 seconds of each track on a disc automatically. This function continues on the disc until it is canceled.

∗ The scan play is useful when you want to select a desired track.

1. Press SCN button [5] to start track scanning. "**SCN**" lights in the display.
2. To cancel the scan play, press SCN button [5] again. "**SCN**" goes off from the display and the current track continues to play.

Disc scan play

The disc scan play locates and plays the first 10 seconds of the first track on each disc in the currently selected MD changer. This function continues automatically until it is canceled.

∗ The disc scan play is useful when you want to select a desired MD.

1. Press and hold SCN button [5] for 1 second or longer. "**DISC**" and "**SCN**" light in the display and the disc scan play starts.
2. To cancel the disc scan play, press and hold SCN button [5] again. "**DISC**" and "**SCN**" go off from the display and the current track continues to play.

Repeat play

The repeat play continuously plays the current track. This function continues automatically until it is canceled.

1. Press RPT button [6]. "**RPT**" lights in the display and the current track is repeated.
2. To cancel the repeat play, press RPT button [6] again. "**RPT**" goes off from the display and normal play resumes.

Disc repeat play

After all the tracks on the current disc have been played, the disc repeat play automatically replays the current disc over from the first track. This function continues automatically until it is canceled.

1. Press and hold RPT button [6] for 1 second or longer. "**DISC**" and "**RPT**" light in the display and the disc repeat play starts.
2. To cancel the disc repeat play, press and hold RPT button [6] again. "**DISC**" and "**RPT**" go off from the display and normal play resumes on the current track.

Random play

The random play selects and plays individual tracks on the disc in no particular order. This function continues automatically until it is canceled.

1. Press RDM button [7]. "**RDM**" lights in the display and the random play begins.
2. To cancel the random play, press RDM button [7] again. "**RDM**" goes off from the display and normal play resumes.

Disc random play

The disc random play selects and plays individual tracks or discs automatically in no particular order. This function continues automatically until it is canceled.

1. Press and hold RDM button [7] for 1 second or longer. "**DISC**" and "**RDM**" light in the display and the disc random play starts.
2. To cancel the disc random play, press and hold RDM button [7] again. "**DISC**" and "**RDM**" go off from the display and normal play resumes from the current track.

TV Operations

TV tuner functions

When an optional TV tuner is connected through the CeNET cable, this unit controls all TV tuner functions. To watch TV requires a TV tuner and monitor.

Watching a TV

1. Press FNC button [3] and select the TV mode.
2. Press BND button [12] to select the desired TV band (TV1 or TV2). Each time the button is pressed, the input selection toggles between TV1 and TV2.
3. Press the right or left side of SEARCH button [14] to tune in the desired TV station.

Watching a video

The TV tuner has a VTR input terminal to which 1 external device can be connected. Connect a 12V video cassette player (VCP) or video cassette recorder (VCR) to the TV tuner input terminal.

1. Press RDM button [7] to select VTR.
2. To return to the TV broadcast, press RDM button [7].

Tuning

There are 3 types of tuning mode available, Seek tuning, manual tuning and preset tuning.

Seek tuning

1. Press BND button [12] to select the desired TV band (TV1 or TV2).
   * If "**MANU**" is lit in the display, press and hold BND button [12] for 1 second or longer. "**MANU**" in the display goes off and seek tuning is now available.
2. Press the right or left side of SEARCH button [14] to automatically seek a station.
   Press the right side of SEARCH button [14] to automatically tune up the frequency band to the next available TV station; press the left side to automatically tune down.

English

Manual tuning

There are 2 ways available: Quick tuning and step tuning.
When you are in the step tuning mode, the frequency changes one step at a time. In quick tuning mode, you can quickly tune the desired frequency.

1. Press BND button [12] and select the desired band (TV1 or TV2).
   * If "**MANU**" is not lit in the display, press and hold BND button [12] for 1 second or longer. "**MANU**" lights in the display and manual tuning is now available.
2. Tune into a station.

● **Quick tuning:**

Press and hold the right or left side of SEARCH button [14] for 1 second or longer to tune in a station.

● **Step tuning:**

Press the right or left side of SEARCH button [14] to manually tune in a station.

Recalling a preset station

A total of 12 TV stations can be stored (6-TV1 and 6-TV2). This allows you to select your favorite TV stations and store them in memory for later recall.

1. Press BND button [12] and select the desired TV band (TV1 or TV2).
2. To recall a stored TV station, press the desired Preset button [9] to select that station.
   * Press and hold one of the Preset buttons [9] for 2 seconds or longer to store the current station into the preset memory.

Manual memory

1. Select the desired station with seek tuning, manual tuning or preset tuning.
2. Press and hold one of the Preset buttons [9] for 2 seconds or longer to store the current station to that preset memory.

Auto store

Auto store selects 6 TV stations automatically and stores each one into a preset memory.

If there are not 6 stations with good reception, stations previously stored in memory remain and only the strong stations are stored into memory.

1. Press BND button [12] and select the desired TV band (TV1 or TV2).
2. Press and hold AS button [5] for 2 seconds or longer. The stations with good reception are automatically stored to the Preset buttons [9].

Preset scan

Preset scan allows the user to view each preset position before it automatically advances to the next preset. This function is useful for searching for desired TV station in memory.

1. Press PS button [5].
2. When the desired station is found, press PS button [5] again to remain tuned to that station.

Note:

• Do not press and hold PS button [5] for 2 seconds or longer. Doing so will trigger the auto store function and start storing stations into memory.

Setting the TV diver

You can change the reception setting for the TV antenna connected to the TV tuner.

1. Press and hold ADJ button [4] for 1 second or longer to switch to the adjustment selection display.
2. Press the right or left side of SEARCH button [14] to select "**TV DIVER**".
3. Press ENT button [2].
4. Turn the Rotary knob [15] clockwise to set to "**ON**" or counterclockwise to set to "**OFF**".

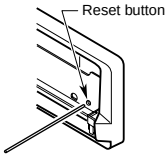
   ON:

   Sets reception emphasizing the visual.

   OFF:

   Sets the diver setting to OFF.
5. Press ENT button [2].
6. Press ADJ button [4] to return to the previous mode.

9. TROUBLESHOOTING

	Problem	Cause	Measure
General	Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
		Incorrect wiring.	Consult your store of purchase.
	No sound output when operating the unit with amplifiers or power antenna attached.	Power antenna lead is shorted to ground or excessive current is required for remote-on the amplifiers or power antenna.	1. Turn the unit off. 2. Remove all wires attached to the power antenna lead. Check each wire for a possible short to ground using an ohm meter. 3. Turn the unit back on. 4. Reconnect each amplifier remote wire to the power antenna lead one by one. If the amplifiers turn off before all wires are attached, use an external relay to provide remote-on voltage (excessive current required).
	Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press OPEN button [1] and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
		DCP or source unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
Tape	Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc., to clean the head.
		DOLBY NR button [7] is not pressed.	When listening to a tape recorded with Dolby NR, press DOLBY NR button [7] and select B NR.

English

10. ERROR DISPLAYS

If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

	Error Display	Cause	Measure
Tape	**ERROR 1**	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
	ERROR 2	Tape is caught and cannot be played.	Remove the caught or wound tape.
	ERROR 4	Tape mode cannot be detected.	This is a failure of tape mechanism and consult your store of purchase.
	ERROR 8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CD changer	**ERROR 2**	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism and consult your store of purchase.
	ERROR 3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
MD changer	**ERROR H**	Displayed when the temperature in the MD changer is too high and playback has been stopped automatically.	Lower the surrounding temperature and wait for a while to cool off MD changer.
	ERROR 2	An MD inside the MD changer is not loaded.	This is a failure of MD changer's mechanism and consult your store of purchase.
	ERROR 3	An MD inside the MD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
	ERROR 6	An MD inside the MD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
		Displayed when a non-recorded MD is loaded in the MD changer.	Load a pre-recorded MD in the MD changer.

If an error display other than the ones described above appears, press the reset button. If the problem persists, turn off the power and consult your store of purchase.

11. SPECIFICATIONS

FM Tuner

Frequency Range:
87.9 MHz to 107.9 MHz

Usable Sensitivity:
11 dBf

50dB Quieting Sensitivity:
17 dBf

Alternate Channel Selectivity:
75 dB

Stereo Separation (1 kHz):
35 dB

Frequency Response (±3 dB):
30 Hz to 15 kHz

AM Tuner

Frequency Range:
530 kHz to 1710 kHz

Usable Sensitivity:
25 μV

Tape Deck

Wow & Flutter (WRMS):
0.06%

Channel Separation (1 kHz):
45 dB

Frequency Response (±3 dB):

120 μs (normal):
30 Hz to 18 kHz

70 μs (CrO_2, FeCr, Metal):
30 Hz to 20 kHz

Signal to Noise Ratio, 70 μs (CrO_2, FeCr, Metal)
Dolby NR OFF:
58 dB

Dolby B NR:
67 dB

Audio

Maximum Power Output:
160 W (40 W × 4 ch) (EIAJ)

Continuous Average Power Output:
14 W × 4, into 4 Ω, 20 Hz to 20 kHz, 1%THD

Bass Control Action (30 Hz):
±15 dB

Treble Control Action (10 kHz):
±10 dB

Line Output Level (0VU tape):
0.7 V

General

Power Supply Voltage:
14.4 V DC (10.8 to 15.6 V allowable),
negative ground

Current Consumption:
Less than 15 A

Speaker Impedance:
4 Ω (4 Ω to 8 Ω allowable)

Weight / Source unit:
3.52 lb. (1.6 kg)

Weight / Remote control unit:
1 oz. (30 g) (including battery)

Dimensions / Source unit:
7″(Width) × 2″(Height) × 6-1/8″(Depth)
[178 (W) × 50 (H) × 155 (D) mm]

Dimensions / Remote control unit:
1-3/4″(Width) × 4-5/16″(Height) × 1-1/8″(Depth)
[44 (W) × 110 (H) × 27 (D) mm]

Notes:

• Specifications comply with EIA Standards.
• Specifications and design are subject to change without notice for further improvement.

Memo

English